

DS18 CANDY-XXL1B

DS18 CANDY-XXL1B Amplifier Instruction Manual

Model: CANDY-XXL1B

1. INTRODUCTION

Thank you for choosing the DS18 CANDY-XXL1B Class D Monoblock Amplifier. This compact yet powerful amplifier is designed to deliver high-quality audio performance for your car audio system. This manual provides essential information for proper installation, operation, and maintenance of your amplifier to ensure long-lasting performance and user satisfaction.

2. SAFETY INFORMATION

Please read all instructions carefully before installing and operating your amplifier. Failure to follow these guidelines may result in damage to the amplifier, speakers, or vehicle, and may void your warranty.

- Always disconnect the vehicle's battery negative terminal before beginning any installation.
- Ensure proper grounding. A secure ground connection is crucial for optimal performance and safety.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in the setup section.
- Avoid running wires near sharp edges or moving parts. Use grommets and wire ties to secure wiring.
- Do not mount the amplifier in areas exposed to direct sunlight, excessive heat, moisture, or dust.
- Ensure adequate ventilation around the amplifier to prevent overheating.
- If you are unsure about any part of the installation process, seek professional assistance from an authorized DS18 dealer.

3. PACKAGE CONTENTS

Verify that all items are present in your amplifier package:

- DS18 CANDY-XXL1B Amplifier
- Remote Bass Knob
- Mounting Hardware (screws, washers, Allen wrenches)

- Instruction Manual (this document)



Image: Remote Bass Knob and Cable. This image shows the compact remote bass knob with its attached cable, used for convenient bass level adjustment.



Image: Mounting Hardware. This image displays the included screws, washers, and Allen wrenches necessary for securing the amplifier during installation.

4. PRODUCT OVERVIEW

The DS18 CANDY-XXL1B is a high-performance Class D monoblock amplifier designed for powerful bass reproduction. Its compact size allows for versatile installation options in various vehicle types. The amplifier features robust internal components and a sleek black and red design.



Image: DS18 CANDY-XXL1B Amplifier. This image shows the top view of the amplifier in black with red accents, alongside the remote bass knob and its cable.



Image: Internal Circuit Board. This image provides a view of the amplifier's internal red circuit board, showcasing its components and robust construction.

5. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your amplifier. Follow these steps carefully:

5.1 Mounting Location

Choose a mounting location that is dry, well-ventilated, and away from direct heat sources. Ensure there is enough space around the amplifier for air circulation. Common locations include the trunk, under seats, or behind panels.

5.2 Wiring Connections

Refer to the diagram below for proper wiring connections. Use high-quality, appropriate gauge wiring for all connections.



Image: Rear Panel Connections. This image illustrates the power, ground, remote, fuse, and speaker terminals on the amplifier's rear panel.

- **Power (BATT+):** Connect a direct wire from the positive terminal of your vehicle's battery to the +12V terminal on the amplifier. Use a fuse holder with the recommended fuse size (3 x 35A) as close to the battery as possible.
- **Ground (GND):** Connect a short wire (no longer than 3 feet) from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
- **Remote (REM):** Connect a wire from your head unit's remote turn-on output to the REM terminal on the amplifier. This will turn the amplifier on and off with your head unit.
- **Input (RCA):** Connect your head unit's RCA output to the amplifier's RCA input jacks.
- **Speaker Output:** Connect your subwoofer(s) to the speaker terminals. Ensure correct polarity (+ to + and - to -). This amplifier supports 1 Ohm, 2 Ohm, and 4 Ohm speaker impedance.

- **Remote Bass Knob:** Plug the remote bass knob cable into the 'REMOTE' port on the amplifier. Mount the knob in a convenient location for easy access.

6. OPERATING INSTRUCTIONS

Once installed, adjust the amplifier settings for optimal sound performance.



Image: Top Panel Controls. This image highlights the gain, bass boost, boost frequency, low pass filter (LPF), and phase controls on the amplifier's top panel.

6.1 Gain Control (Input Sensitivity)

The Gain control matches the amplifier's input sensitivity to the output of your head unit. Start with the gain set to minimum (MIN). Gradually increase the gain until you hear slight distortion, then back off slightly. This ensures maximum clean signal output.

6.2 Low Pass Filter (LPF)

The LPF control allows you to set the upper frequency limit for the amplifier's output, typically for subwoofers. Adjust this between 50Hz and 150Hz to blend the subwoofer's output with your main speakers.

6.3 Bass Boost

The Bass Boost control provides an adjustable boost at a specific frequency (40Hz or 100Hz). Use this to enhance bass response. Start at 0dB and increase gradually if desired, being careful not to over-boost and cause distortion.

6.4 Phase Control

The Phase control (0° or 180°) helps to align the subwoofer's output with the rest of your audio system. Experiment with both settings to find the one that provides the most impactful and coherent bass response.

6.5 Remote Bass Knob

The included remote bass knob allows for convenient, real-time adjustment of the subwoofer's output level from the driver's seat.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier.

- Cleaning:** Use a soft, dry cloth to wipe down the amplifier's exterior. Do not use harsh chemicals or abrasive cleaners.
- Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

8. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / No Indicator Light	Blown fuse, poor power/ground connection, no remote signal.	Check amplifier fuses and inline fuse near battery. Verify +12V, GND, and REM connections are secure and receiving power.
No Sound Output	RCA cables disconnected/damaged, speaker wires disconnected/shorted, gain set too low.	Check RCA connections from head unit. Verify speaker wire connections and ensure no shorts. Increase gain slowly.
Distorted Sound	Gain set too high, improper LPF setting, poor ground connection.	Reduce gain. Adjust LPF. Check ground connection for tightness and cleanliness.
Amplifier Overheating (Protection Mode)	Insufficient ventilation, impedance too low, prolonged high output.	Ensure adequate airflow around amplifier. Verify speaker impedance matches amplifier's capabilities. Reduce volume or allow amplifier to cool.

If the problem persists after checking these points, please contact DS18 customer support or an authorized service center.

9. SPECIFICATIONS

Detailed technical specifications for the DS18 CANDY-XXL1B Amplifier:

Feature	Specification

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Number of Channels	1 (Monoblock)
Max Power	3000 Watts
1 Ohm RMS Power (14.4V)	1 x 1000W
2 Ohm RMS Power (14.4V)	1 x 650W
4 Ohm RMS Power (14.4V)	1 x 400W
Frequency Response	20Hz - 20KHz
Speaker Impedance Range	1 Ohm
Input Sensitivity	0.2V - 6V
Low Pass Filter (LPF)	50Hz - 150Hz
Fuse Size	3 x 35A
Signal-to-Noise Ratio	100dB
THD	0.0001
Bass Boost	0dB - +12dB
Product Dimensions (L x W x H)	11.12 x 5 x 1.77 inches (280 x 127 x 47.5mm)
Item Weight	5.39 pounds
Color	Black

10. WARRANTY AND SUPPORT

DS18 products are designed and manufactured to the highest quality standards. This amplifier is covered by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official DS18 website.

For technical support, troubleshooting assistance, or warranty claims, please contact DS18 customer service through their official website or authorized dealers. You can also visit the [DS18 Store on Amazon](#) for more information and product resources.